

Species Tag:	32005	Name:	O2-snglt-dlta
Version:	1		Oxygen molecule,
Date:	Sept. 1985		metastable $a^1\Delta_g$ state
Contributor:	E. A. Cohen		
Lines Listed:	67	$Q(300.0) =$	149.555
Freq. (GHz) <	5665	$Q(225.0) =$	112.746
Max. J:	69	$Q(150.0) =$	75.928
LOGSTR0=	-15.3	$Q(75.00) =$	39.165
LOGSTR1=	-17.8	$Q(37.50) =$	20.831
Isotope Corr.:	0.0	$Q(18.75) =$	11.754
Egy. (cm^{-1}) >	0.0	$Q(9.375) =$	7.389
$\mu_a =$		A=	
$\mu_b =$	magnetic	B=	42505.7440
$\mu_c =$		C=	

The data and parameters are reported in K. W. Hillig *et al.*, 1985, J. Mol. Spectrosc. **109**, 205. The partition function is calculated as if the metastable $a^1\Delta_g$ state is a separate molecule. The state is essentially unpopulated in thermal equilibrium.